

CAMPUS FORUM

October 4, 2011

Strategic Plan

- Approved by Board of Control on July 16, 2009
 - ✓ Major Goals Remain Same
 - People
 - Distinctive Education
 - Research/Scholarship/Creativity
- <http://www.mtu.edu/stratplan/>

Strategic Plan Review Timeline, 2012

Preliminary

- Executive Team – January, 2011
- Senate Executive Committee – February 9, 2011
- VPAdmin Direct Reports – February 16, 2011
- VPR Direct Reports – February 21, 2011
- Academic Deans Council – February 25, 2011
- USG/GSG – March 3, 2011
- VPSA, CFO, and VPGR Direct Reports – March 3, 2011
- Senate Review of Existing Plan - March 3, 2011
- Staff Council – May 18, 2011

Review

- Executive Team Retreat – June 20, 2011
- Public Comment Period – September, 2011
- Deans Retreat to Review/Revise – September 2011
- Exec Team Retreat to Review/Revise Dean's Revision – October, 2011
- Initial Meeting with Chairs and Deans to Review Deans/ET Draft – October, 2011
- Informal Review with BOC – December, 2011
- Campus Comment Period – January-February, 2012
 - Posting of Deans/ET Draft
 - Chairs/Deans Review with Units
 - Meeting with Senate
 - Meeting with Staff Council
 - President's Campus Forum
- Other Stakeholder Comment Period - January-February, 2012
- Consolidation of Comments - February, 2012
- ET/Deans Evaluation of Comments – March, 2012
- BOC Review – March, 2012
- Final BOC Approval – May, 2012

Vision for 2035:

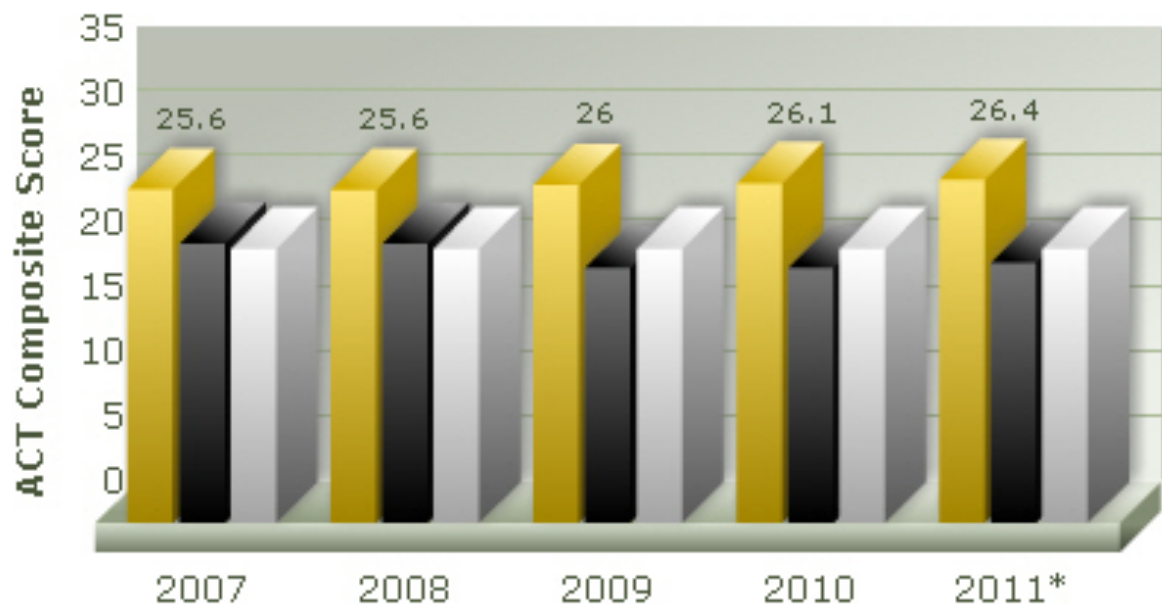
World Class Research University

Portrait of Michigan Tech 2035

Strong Partner in Change for Michigan, the US, and the World

1. World Class faculty – 40% in endowed positions
2. Student body of 8750
 - 5750 Undergraduates
 - 3000 Graduate
 - 40-50% Female Enrollment
3. Global literacy and communication skills in a variety of media will be a prominent part of education
4. High tech/high touch, residential based transformational education
5. Recognized nationally and internationally as a catalyst for research development and innovation at all levels of learning
6. Sustainable financial model with less reliance on state funding
7. University culture is entrepreneurial not bureaucratic with high quality services that are efficient, responsive and sustainable
8. Year-round calendar

Incoming Freshmen ACT Scores

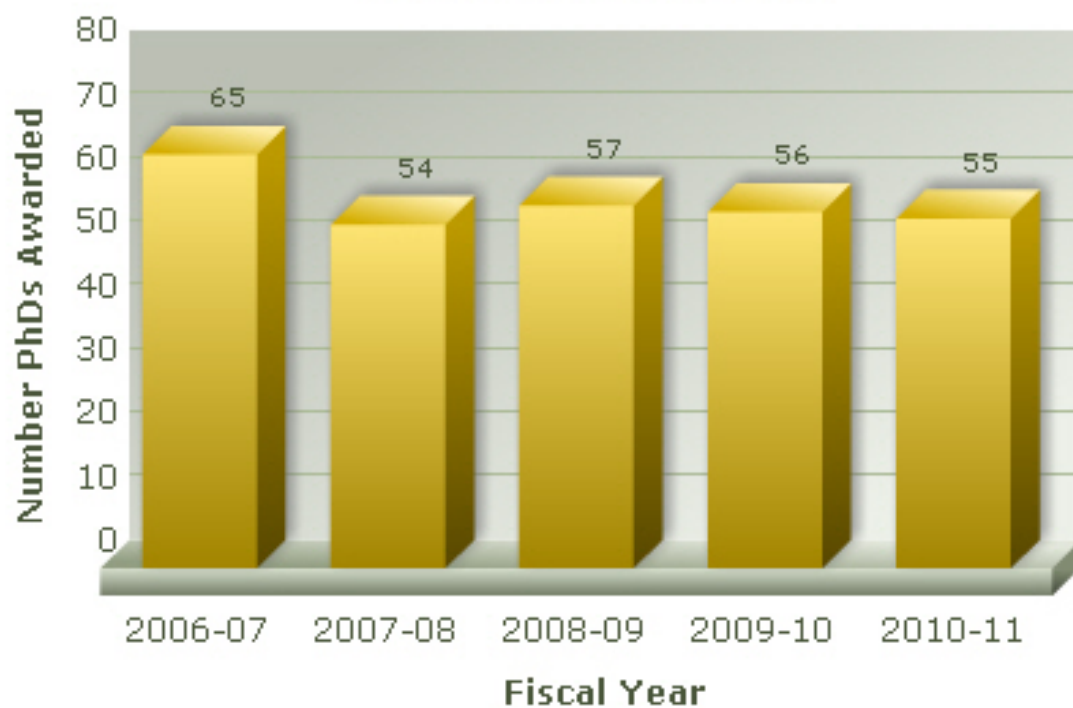


Fall Semester Average

■ Institution
 ■ State Average
 ■ National Average

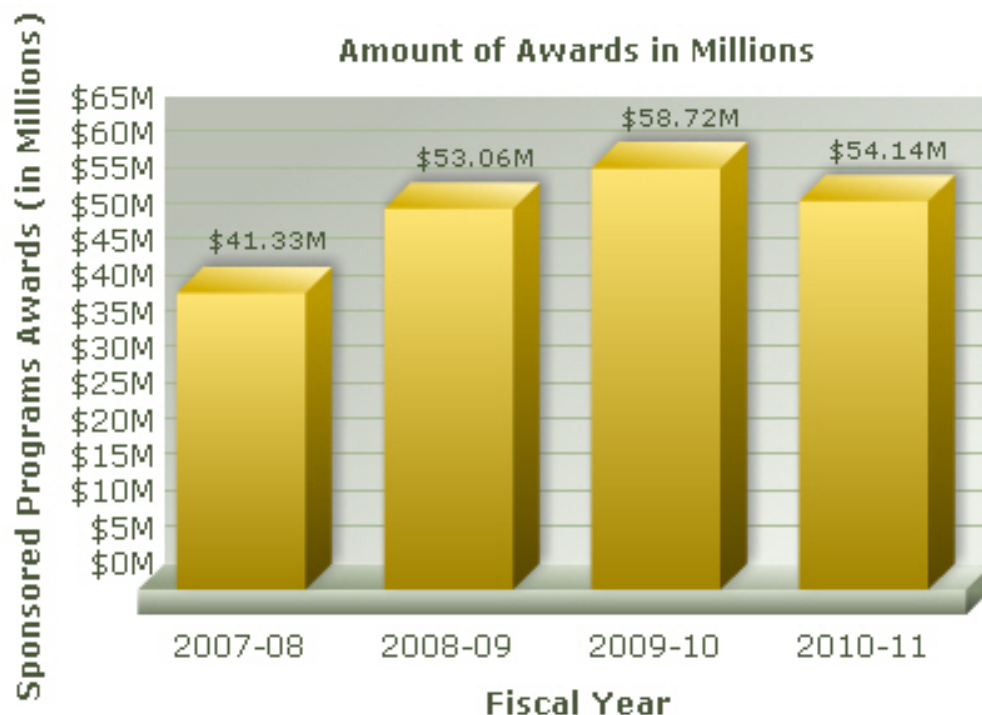
	2011	2012	2013	2014
ACT Composite	26.2	26.4	26.6	26.8

Number of PhDs Awarded



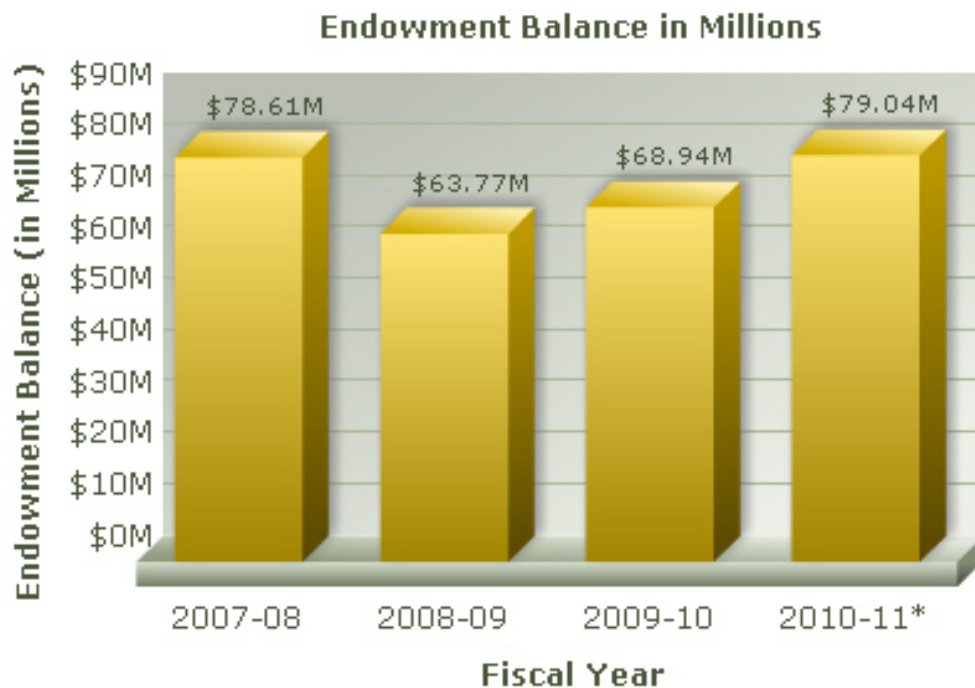
	2011	2012	2013	2014
PhDs Awarded	62	64	66	68

Sponsored Programs Awards



	2011	2012	2013	2014
Sponsored Awards (In Millions)	61.6	66.3	68.9	71.6

Endowment Value



	2011	2012	2013	2014
Endowment (In Millions)	80	95	105	120

FINANCES

CURRENT FUND BALANCES

(in Thousands)

	<u>Balance</u> <u>06/30/09</u>	<u>Balance</u> <u>06/30/10</u>	<u>Balance</u> <u>06/30/11</u>
TOTAL CURRENT FUND BALANCE	\$ 15,635	\$ 15,313	\$ 16,080
LEGALLY RESTRICTED FUNDS	<u>(2,822)</u>	<u>(2,692)</u>	<u>(2,809)</u>
UNRESTRICTED CURRENT FUND BALANCE	<u>\$ 12,813</u>	<u>\$ 12,621</u>	<u>\$ 13,271</u>

GENERAL FUND AND CURRENT FUND FY11
(in Thousands)

	<u>General Fund</u>	<u>Current Fund</u>
Revenue	\$ 157,911	\$ 249,161
Expense	\$ (157,650)	\$ (248,394)
	<hr/>	<hr/>
Net Income	<u>\$ 261</u>	<u>\$ 767</u>
	<hr/>	<hr/>
Fund Balances	<u>\$ (10,999)</u>	<u>\$ 16,080</u>

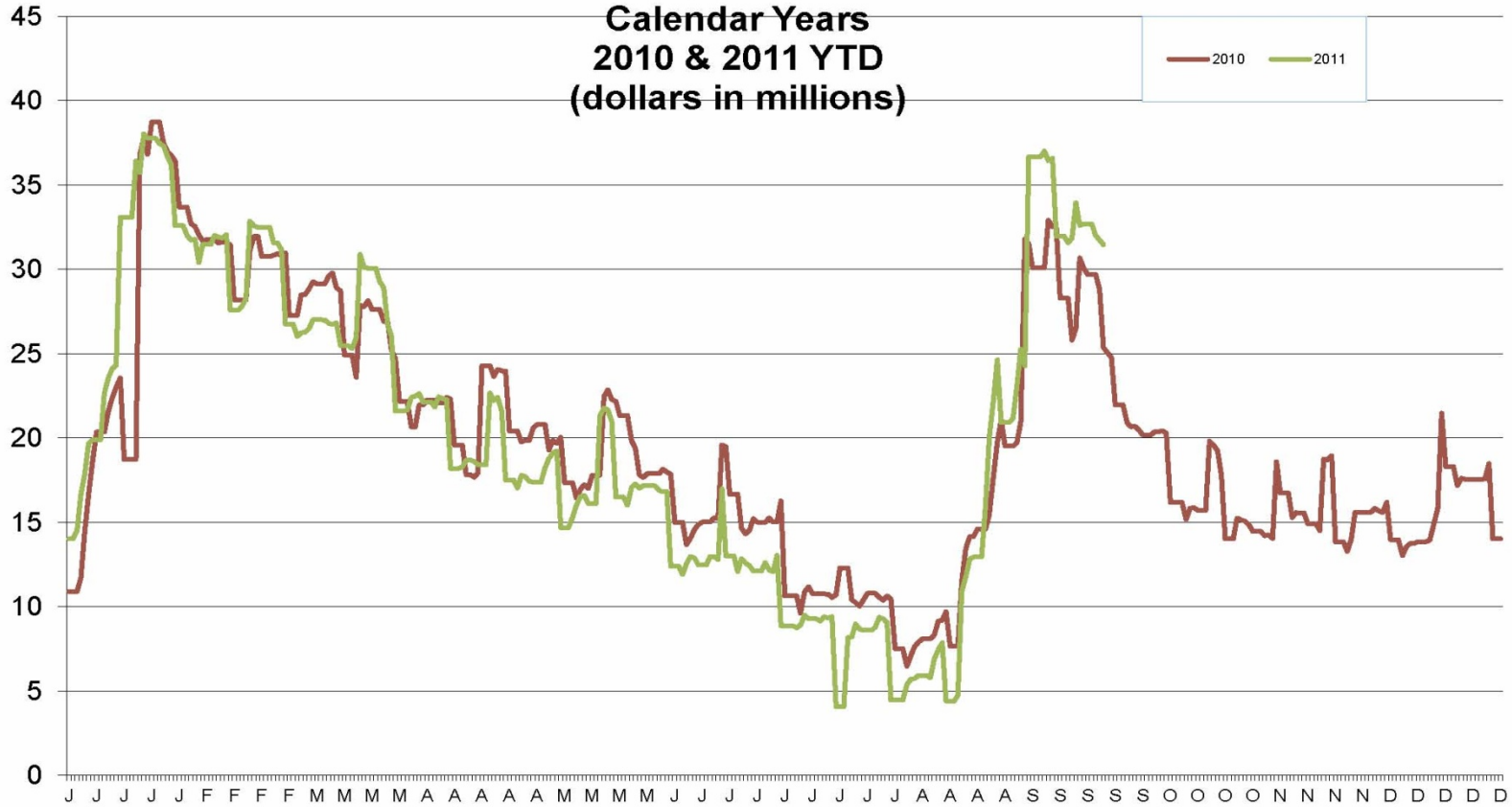
Note: Current Fund includes General Fund, Designated Fund, Auxiliaries, Retirement and Insurance, and the Expendable Restricted Funds.

CURRENT FUND FY11
(in Thousands)

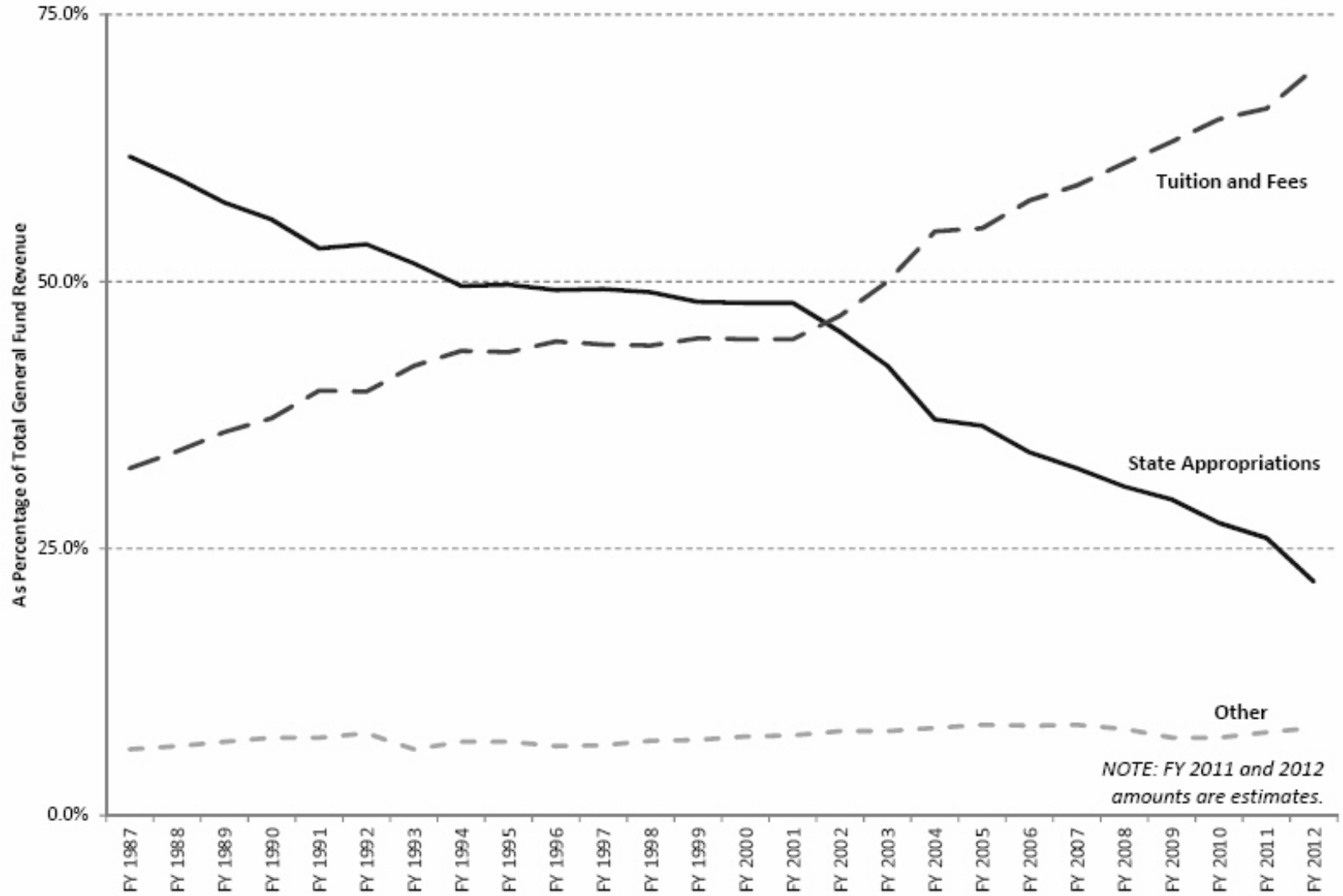
	<u>Original Projection</u>	<u>Current Fund</u>
Revenue	\$ 245,429	\$ 249,161
Expense	\$ (245,218)	\$ (248,394)
	<hr/>	<hr/>
Net Income	<u>\$ 211</u>	<u>\$ 767</u>
	<hr/>	<hr/>
Current Fund Balance	<u>\$ 15,524</u>	<u>\$ 16,080</u>

Note: Current Fund includes General Fund, Designated Fund, Auxiliaries, Retirement and Insurance, and the Expendable Restricted Funds.

CASH FLOW
Calendar Years
2010 & 2011 YTD
(dollars in millions)

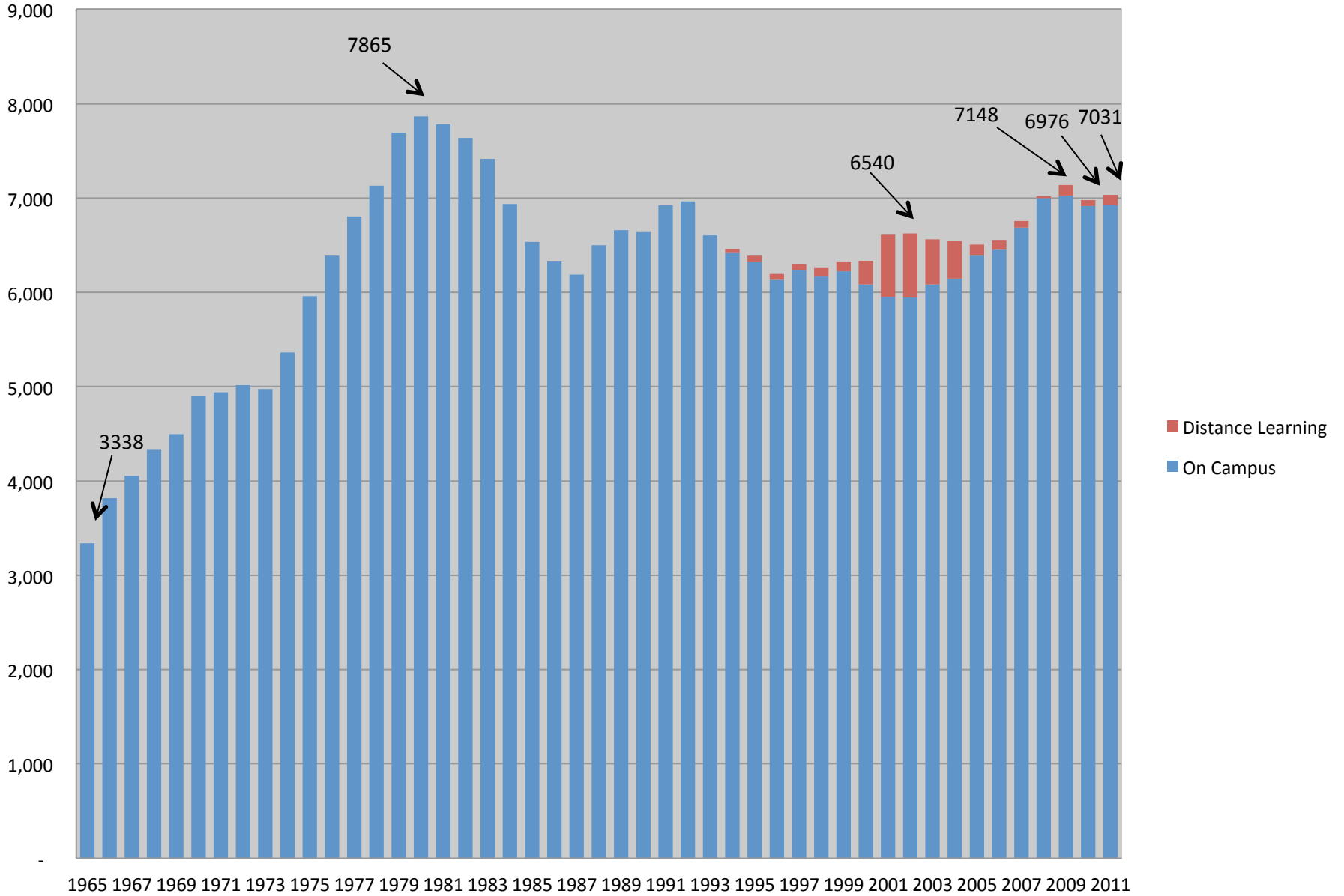


ATTACHMENT 5 University General Fund Revenue History

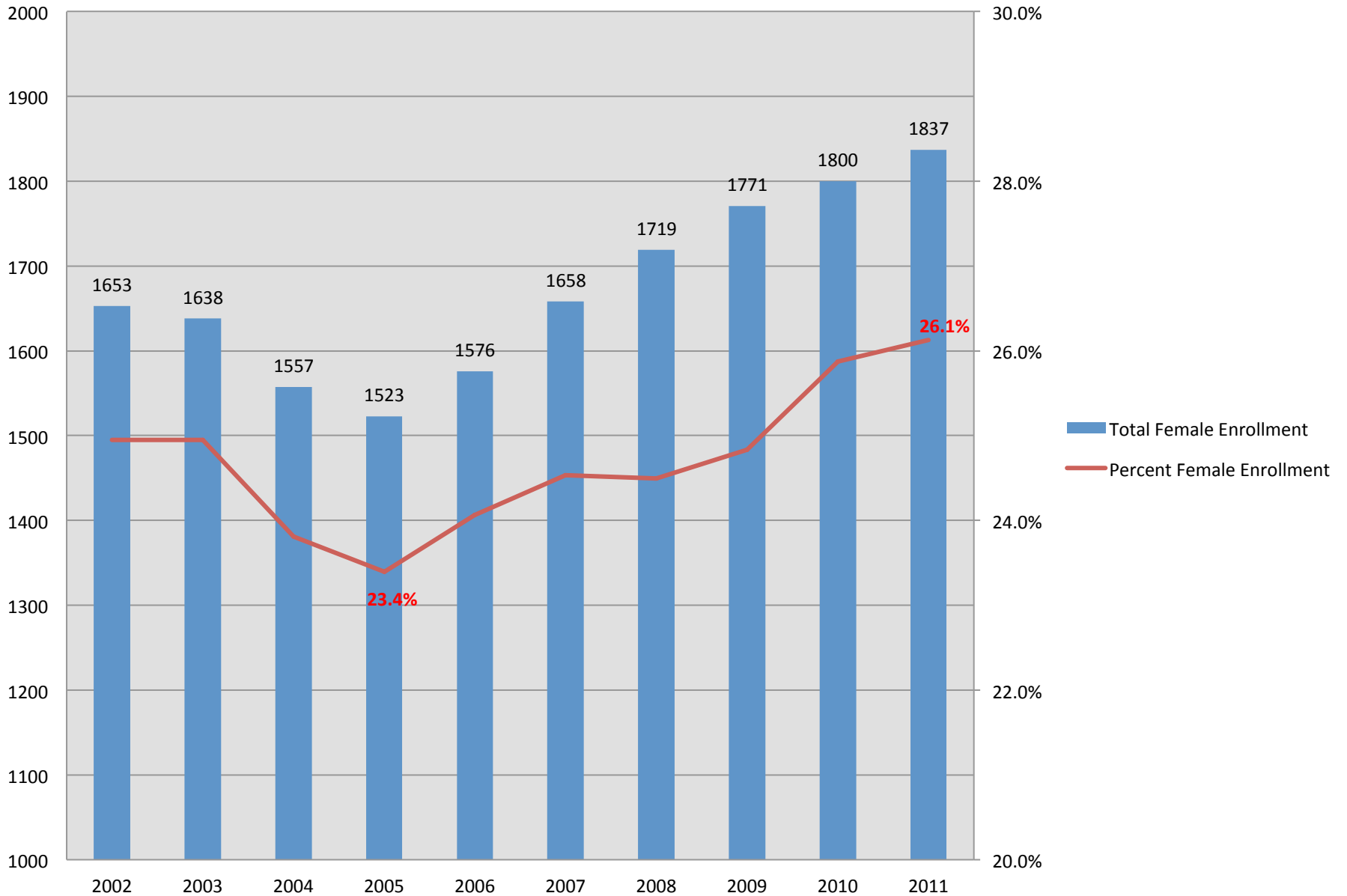


ENROLLMENT

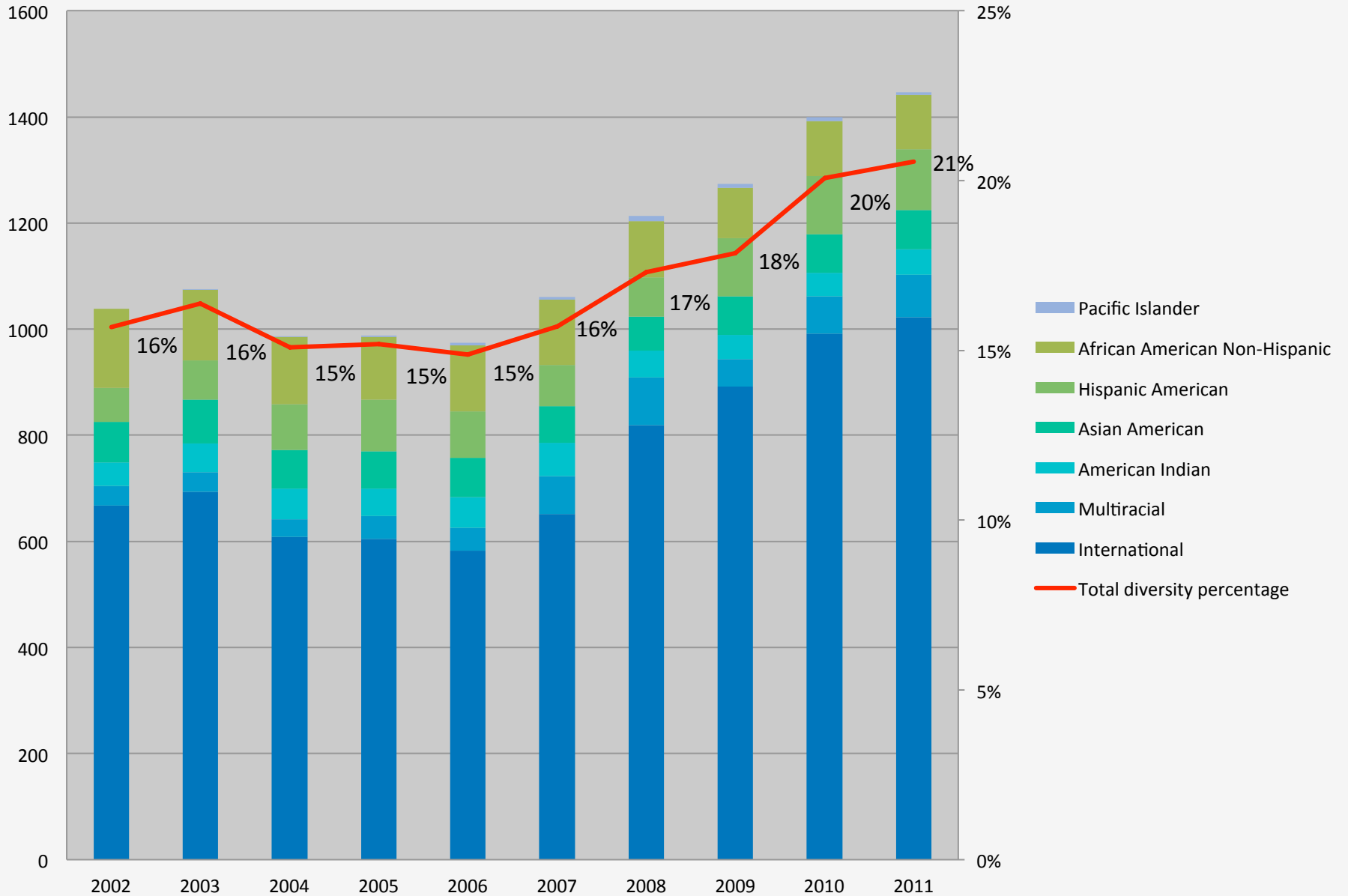
Fall Enrollment 1965-2011



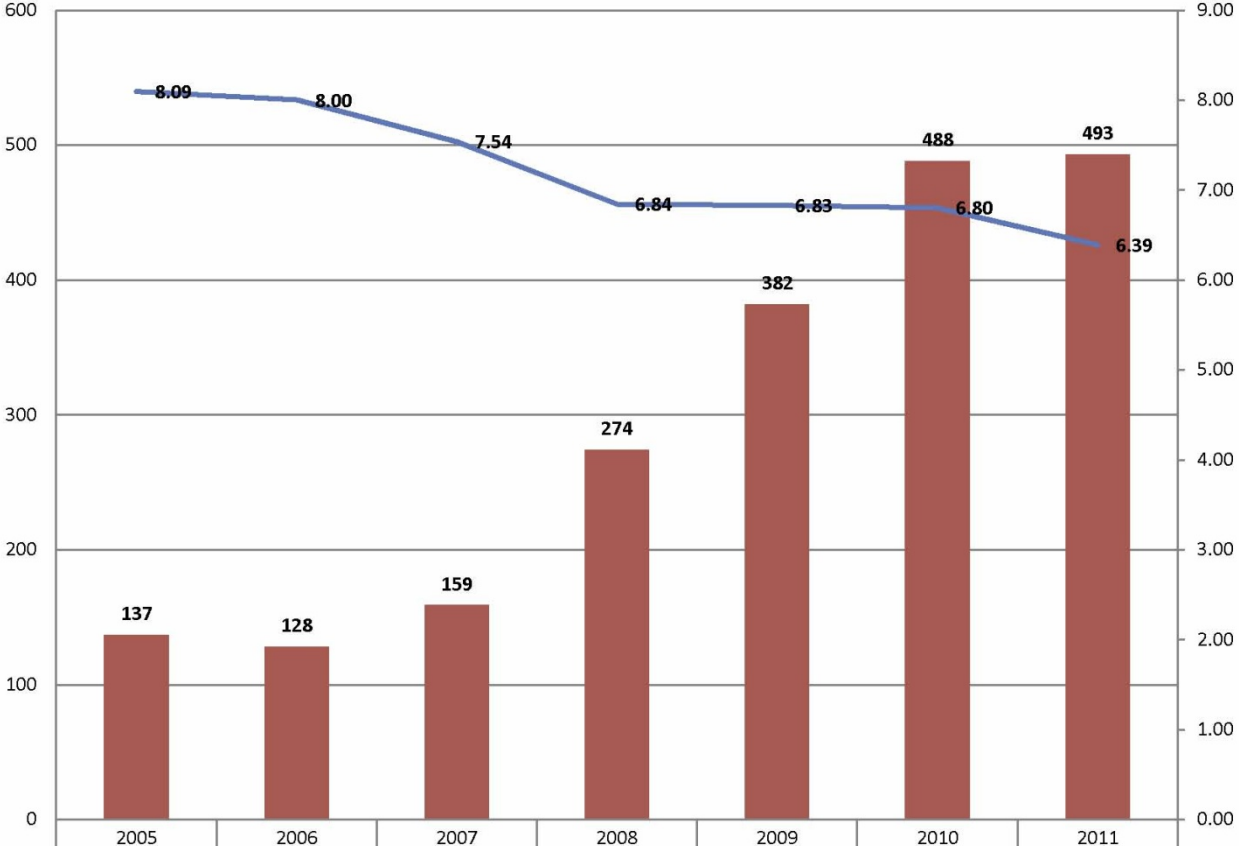
Female Enrollment



Domestic and International Diversity 2002-2011

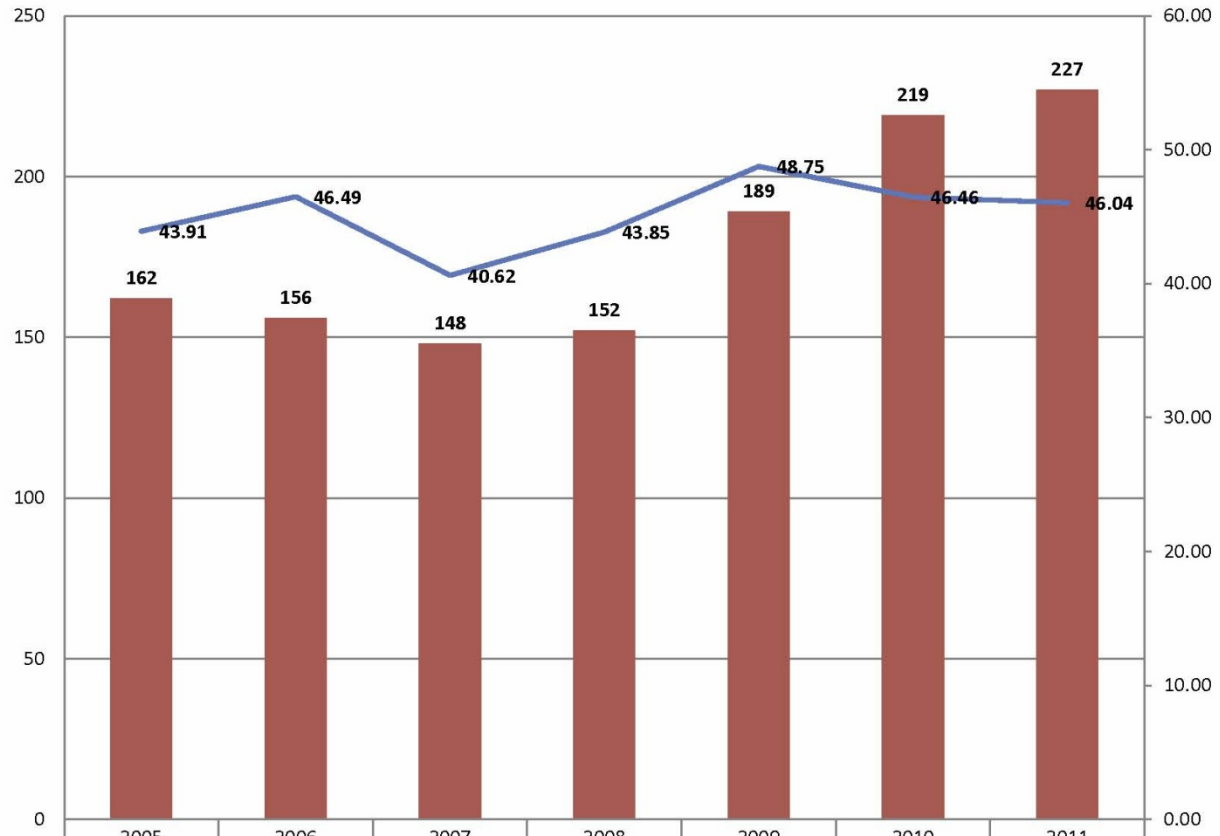


Chinese enrollment vs. Yuan to USD exchange rate



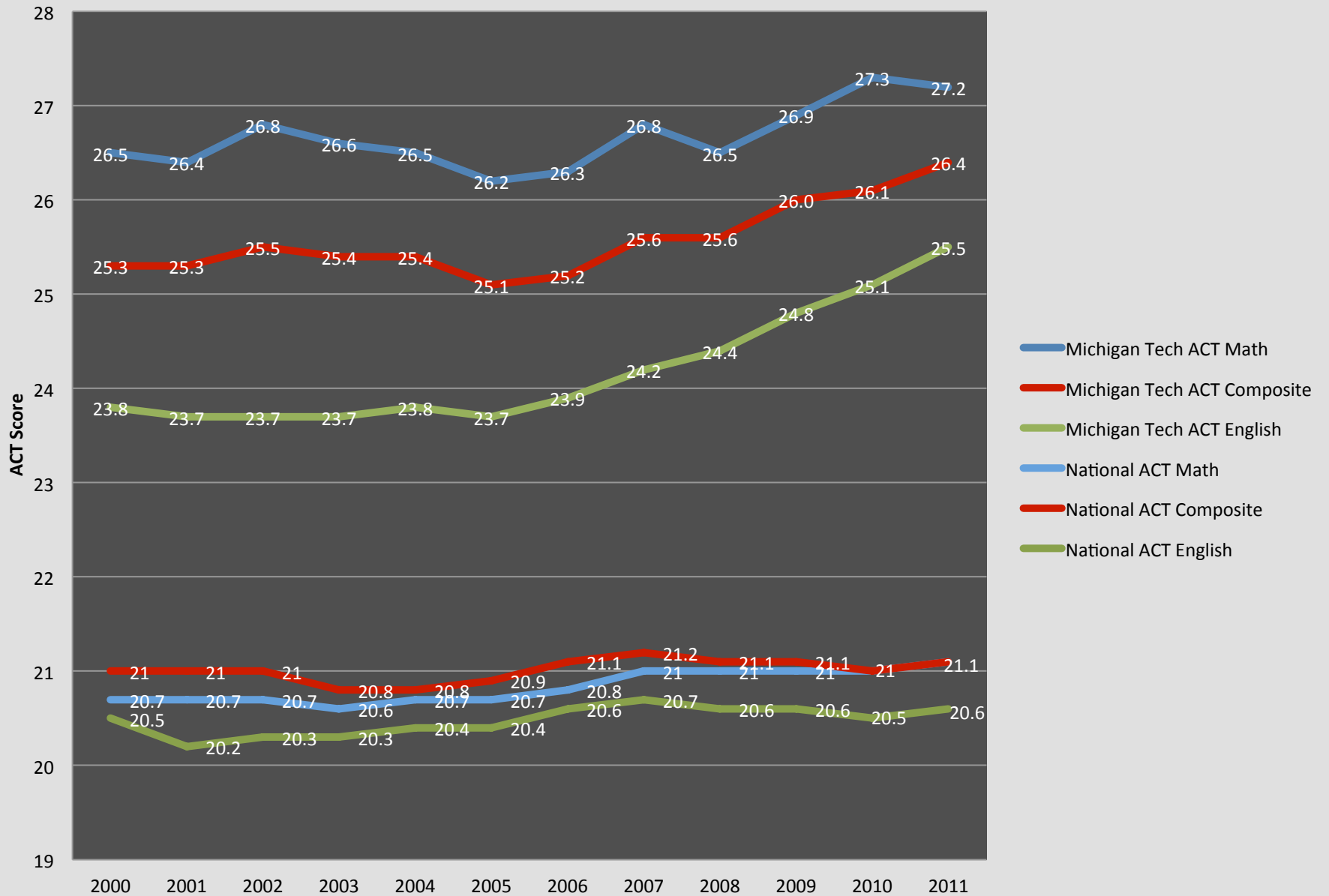
PRC enrollment	137	128	159	274	382	488	493
Yuan to USD	8.09	8.00	7.54	6.84	6.83	6.80	6.39

Indian enrollment vs. Rupee to USD exchange rate

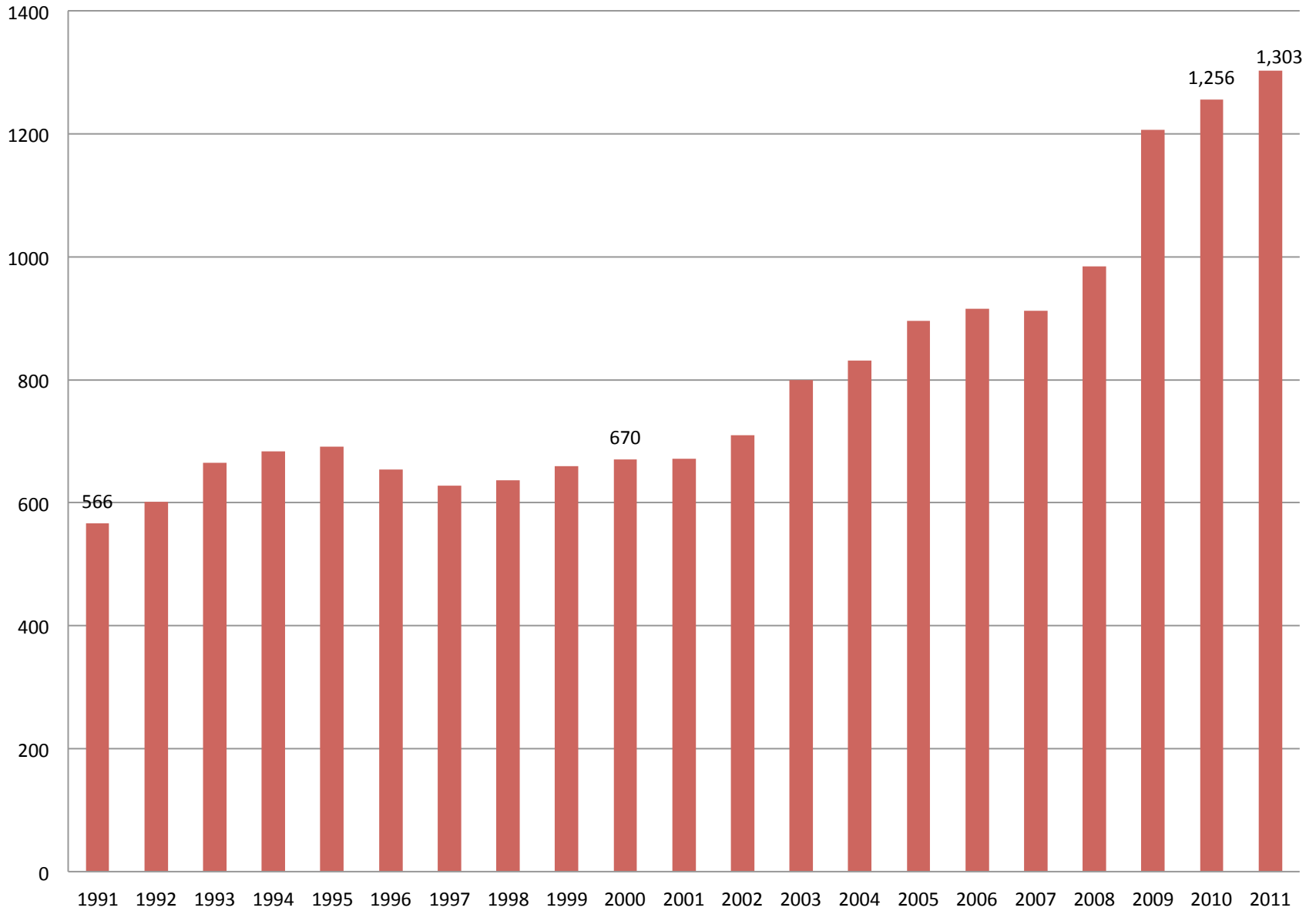


INDIAN enrollment	162	156	148	152	189	219	227
Rupee to USD	43.91	46.49	40.62	43.85	48.75	46.46	46.04

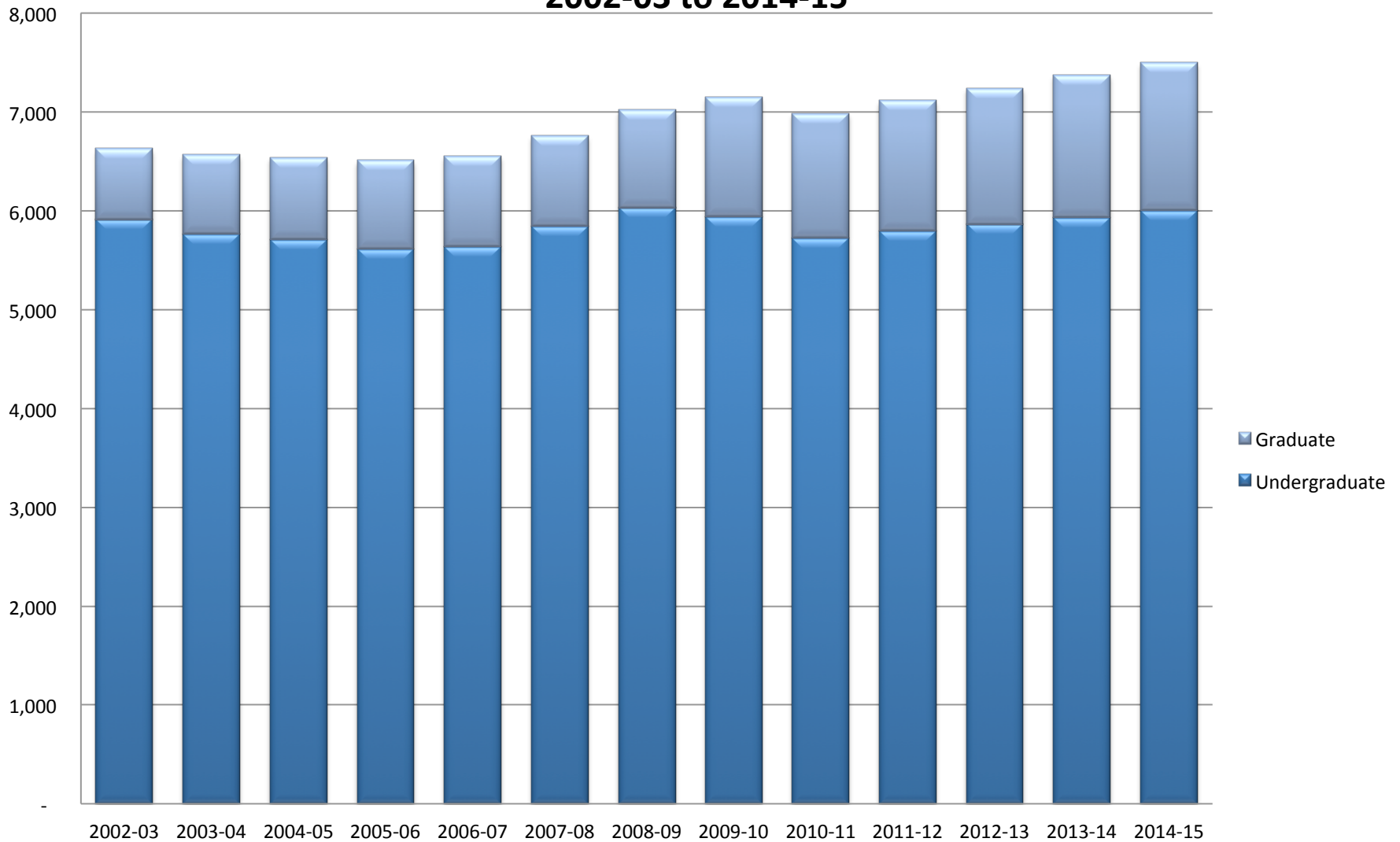
Freshmen Michigan Tech vs. National ACT Scores 2000-2011



Graduate Enrollment 1991-2011



Michigan Technological University Enrollment Projections 2002-03 to 2014-15



Note: Enrollments for 2010-11 through 2014-15 are projected

U.S. News Best Colleges Ranking

(Undergraduate)

- Ranked 115th among 280 national universities
- Ranked 57th among 172 public national universities.
- Engineering ranked 66th in the nation; moving up from 74th.

Princeton Review of Michigan Tech's Life

2001

- ❖ Houghton, 2 miles; End of the World, 4 miles.
- ❖ About the only thing to do in God's country is go four-wheeling and then fix your truck.
- ❖ Six months long and damn cold.
- ❖ Predominately male, white, and both socially and politically conservative.
- ❖ Students seem too caught up in their technical selves.
- ❖ Students are either really gregarious, or lock themselves in their rooms; very little in between.

Princeton Review of Michigan Tech's Life

2006

- ❖ Is separated from the rest of the country.
- ❖ Lots of Greek parties (the Greek scene is not exclusive, which is cool) [and] sporting events, like the very successful football and basketball programs.
- ❖ When it's warm, we fish, hike, bike, rock-climb, and play the school golf course.
- ❖ There is a bipolar distribution with a lot of smart engineers that party little and study hard. There are also a lot of students that drink heavily and just barely get by in their classes.
- ❖ People think it is so easy to be a girl at Tech, but after a while you are just viewed as one of the guys, and then it is hard to get a date.

Princeton Review of Michigan Tech's Life

2011

- ❖ Is in a small town in the middle of the deep North woods which makes the sense of community remarkable.
- ❖ Students say that campus is “incredibly safe,” the atmosphere is very friendly.
- ❖ There are a lot of opportunities to get involved.
- ❖ Strong student community are over 200 clubs and a variety of winter activities to be a part of.
- ❖ Student is smart and a little more introspective than average but still great at balancing school and hanging out.
- ❖ Down-to-earth friendly people who work hard during the week and look forward to relaxing and having fun on the weekends.
- ❖ You have to be a little bit of a nerd to fit in.
- ❖ Winters are long and cold up here; students take advantage of the plentiful snow by hiking, biking, four-wheeling, skiing, [and] snowmobiling.
- ❖ Moderate drinking/merrymaking [to] warm up the cold winters.

FACULTY

137 New Tenured/Tenure Track Faculty Hires Since 2007

- Fall 2011 – 40% of the faculty are new hires

Strategic Faculty Hiring Initiative

- Sustainability (6) + (3) Robbins Chairs
- Computational Design & Innovation (6)
- Energy (4) (2 searches still in progress)
- Health (7)
- Water
- Transportation

SFHI – Water and Transportation

www.mtu.edu/sfhi

Water Chair:

Alex Mayer – CEE

Committee:

Nancy Auer – Biology

Jennifer Becker – CEE

Will Cantrill – Physics

Rod Chimner – SFRES

Sarah Green – Chemistry

Charlie Kerfoot – Biology

Carol MacLennan – SS

Daya Muralidharan – SBE

Bob Shuchman – MTRI

Transportation Co-Chairs:

Tess Ahlborn – CEE

Paul Ward – CLS

Committee:

Louise Dyble – SS

Greg Graman – SBE

John Hill – MEEM

Bill Sproule – CEE

Larry Sutter – MTTI

Dave Watkins – CEE

Michigan Tech

Create the Future

SFHI Assistant: Carol Asiala

Source: Tess Ahlborn

SFHI – Water

- Freshwater and marine ecology and ecosystems
- Water-related health sciences
- Physical oceanography, limnology, and hydrodynamic modeling
- Environmental ethics, history, and policy
- Environmental sociology, anthropology, economics, and psychology
- Atmospheric sciences and climate studies
- Watershed, forest, wetland, groundwater hydrology
- Water quality modeling, measurement, and improvement
- Engineered water systems, including the water-energy nexus
- Remote sensing and advanced instrumentation for hydrologic applications

SFHI – Transportation

- Asset Management
- Human Factors
- Policy and Planning
- Rail Transportation Systems
- Systems Modeling
- Transportation Materials

AQIP

Summary of Action Projects

Title Michigan Tech	Title AQIP	Kickoff Date	Expected Completion Date	Status
Academic Advising Enhancement	Academic Advising Enhancement	April 3, 2009	June 2011	Completed
International Experience	Improving the Processes Associated with International Experience	April 6, 2009	June 2011	Completed
Gender Diversity	Increase Gender Diversity of Faculty & Students	Sept 20, 2010	Sept 20, 2012	Active
Professional Development	Create a systematic Employee Development Process	Oct. 2010	Oct. 2012	Active

AQIP Project: Increasing Gender Diversity of Faculty & Students

The goal of this project is to develop processes and practices that will increase the gender diversity of faculty and students in order to

- “prepare students to create the future” (mission) and
- “attract, retain, and support a world-class and diverse faculty, staff, and student population” (goal).

It will improve processes for students and faculty, and communicate the value of gender diversity to our stakeholders.

LEAN

Continuous Improvement Using Lean Principles

\$55,006 received from the Federal Mediation and Conciliation Service Labor-Management Cooperation Grant Program

- 10-15 new on-campus Lean facilitators recruited and trained (50% unionized staff)
- Outreach and training for managers/supervisors
- Results: Lean model as a method to improve working relationships between labor and management. Increase staff involvement in enhancing their work environments.
- Labor-management committee will carry out project

Labor-Management Committee for Continuous Improvement

Name	Union	Department
Derrick Butkovich	AFSCME	Facilities Operations
Jim Hill	AFSCME	Facilities Operations
Amanda Cadwell	UAW	Civil & Environmental Engineering
Barb Ruotsala	UAW	Auxiliary Services
Donna Beels	POA	Public Safety & Police Services
Wendy Davis		Vice President for Administration
Bonnie Roth		Human Resources
Kerri Sleeman		Facilities Operations
Theresa Colman-Kaiser		Auxiliary Services
Rachel Wussow		Student Activities
Ann Kitalong-Will		Human Resources

Michigan Tech

Campus Transportation & Parking Plan
COMPILED DRAFT



SUBMITTED BY:

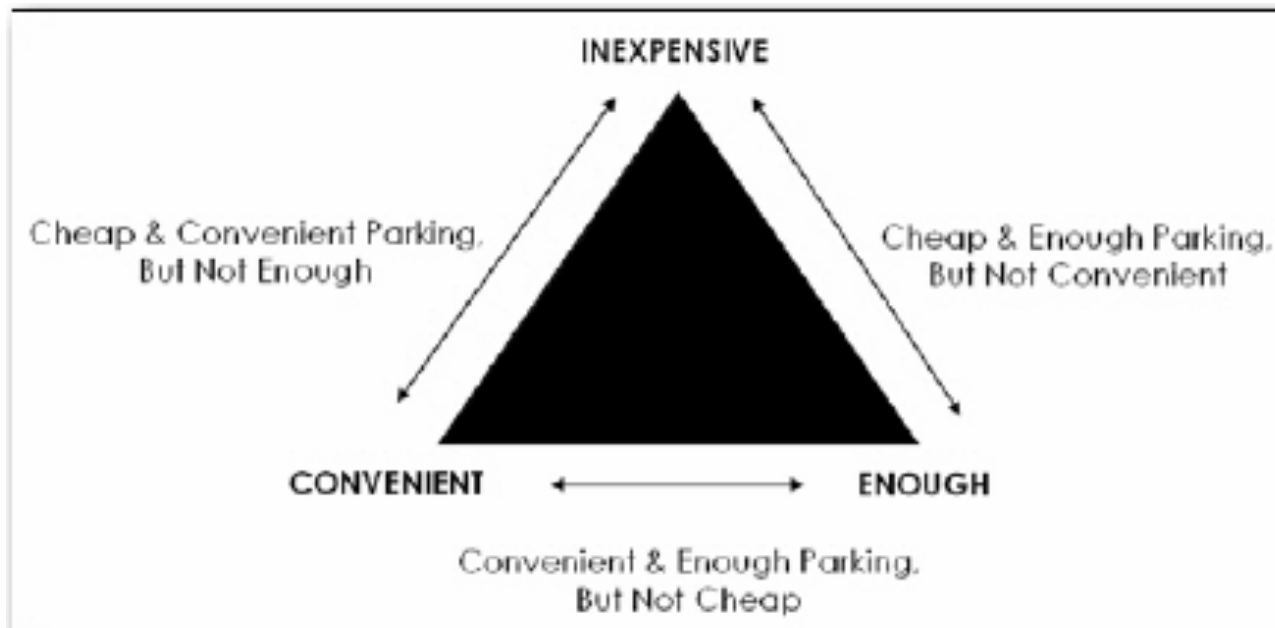
Carl Walker, Inc.
5136 Lovers Lane, Suite 200
Kalamazoo, MI 49002

August 22, 2011

Carl Walker

<http://www.sas.it.mtu.edu/usenate/>

Michigan Tech
Create the Future



Overall Transportation Study Findings

Personal Observations –

- ❖ Current parking is not equitable
- ❖ We need to improve management processes
- ❖ We won't solve local transportation issues on our own

RESEARCH

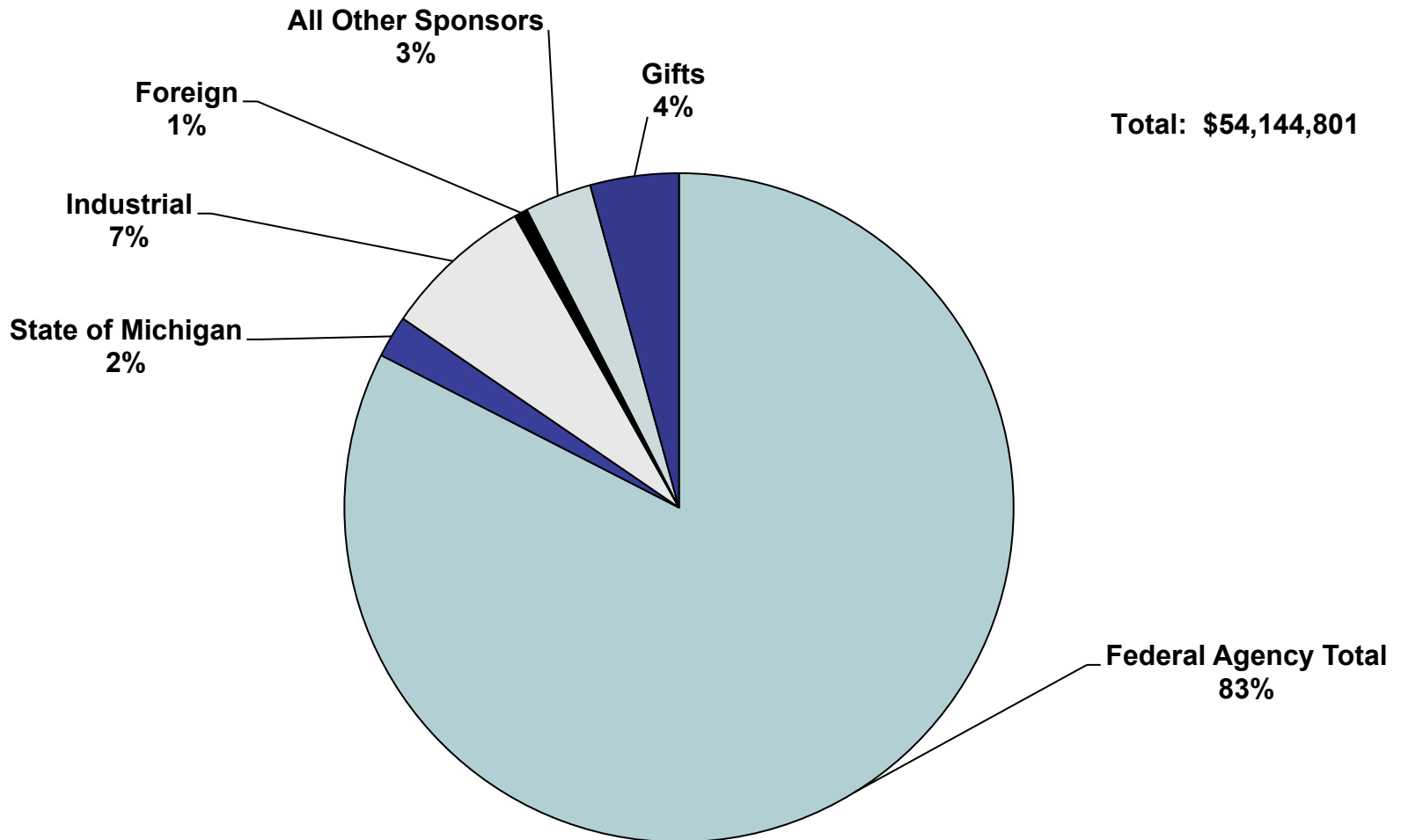
FY 2011 Sponsored Program Award Update



FY2011 Sponsored Program Award Update

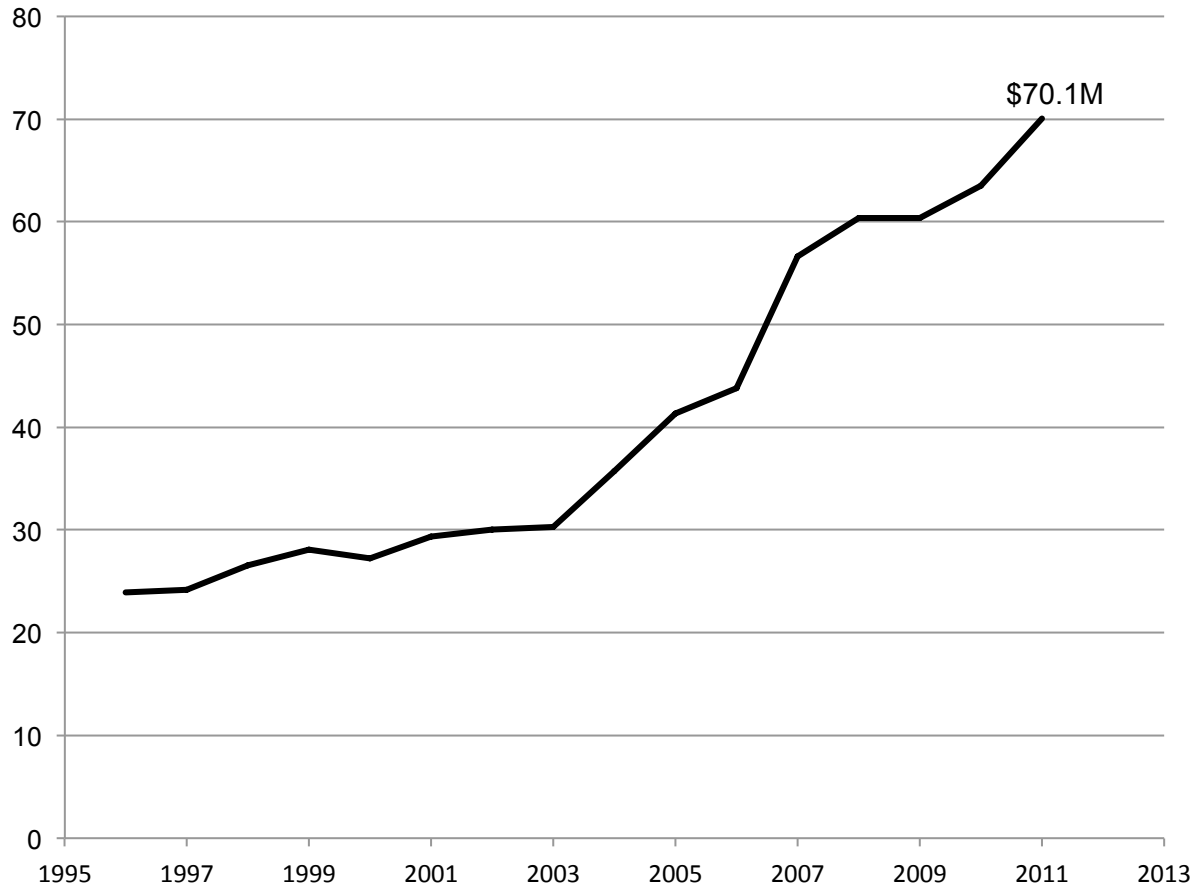
- Awards for FY11 totaled \$54.1 million, a decrease of 8% from FY10.
- Federal awards decreased 7% to \$44.7 million from \$48.2 million in FY10. We received \$ 1.7 million of ARRA funding in FY09, \$10.3 million in FY10 and \$1.2 million in FY11. Without ARRA, federal awards increased over 14% in FY11.

FY2011 Sponsored Program Awards by Funding Source



FY2011 Update

Research Expenditures



FY2011

Research Expenditures

- Research expenditures for FY11 increased to \$ 70.1 million, an increase of 10% over those of FY10.
- ARRA expenditures were \$ 1.9 million and total \$3.2 million over FY10 and FY11; there are approximately \$10.1 million in ARRA funds are remaining to be spent.

CAPITAL CAMPAIGN

MICHIGAN TECHNOLOGICAL UNIVERSITY
Generations of Discovery
Campaign Progress Summary
as of September 26, 2011

Alumni & Friends	\$101,630,950
Corporations	42,989,525
Private Foundations	2,568,602
Gifts-in-Kind	<u>5,055,192</u>
Grand Total	<u><u>\$152,244,269</u></u>

DRAFT

**Michigan Technological University
Generations of Discovery
Campaign Breakdown**

• Facilities	\$ 7.2M
• Scholarships/Fellowships	19.6M
• Chairs & Professorships	28.8M
• Depts. Program Support/Ops.	55.4M
• Research	<u>41.0M</u>
TOTAL	\$152.0M

CAPITAL PROJECTS



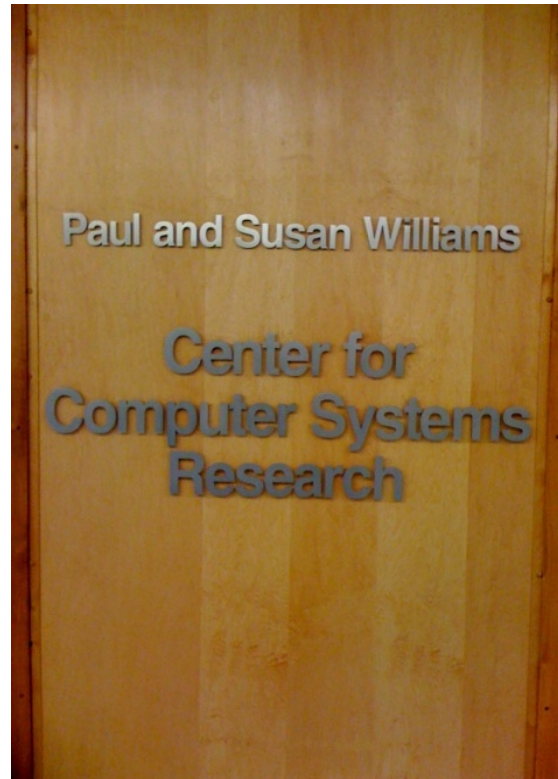
Construction will be wrapping up this week

The LSGI Trading Lab in the School of Business and Economics provides APMP members access to specific investment tools.

Power of Philanthropy



Fifth Floor
EERC





Power of Philanthropy

Tom Shaffner Hall

A.E. Seaman Mineral Museum



Michigan Tech

Create the Future

Power of Philanthropy



Career Center



Physics Lab



Meese Center

(Your Name Here)
Great Lakes
Research Center



HB 5000

POSSIBLE FORMULA FUNDING

- Educated Citizenry
- Accessibility
- Efficient Use of Funds
- Research Commercialization(Doctoral/Research only)

POSSIBLE METRICS OF PERFORMANCE

- First Year Retention
- Numbers of Undergraduate Degrees
- Numbers of STEM Degrees
- Underrepresented Populations (Non-Doctoral/Research)
- Institutional Financial Aid
- Graduation Rates
- Increases in Research Funds, Patent Applications, U.S. Patents Issued, Invention Disclosures Submitted, Licenses & Options Executed, Gross License Income Received, and Start-up Companies Formed. (Doctoral/Research)

QUESTIONS